Trade and Industrial Education
Course: Carpentry I
Course Code # 5731
2 Credits

School Year _____

Term:____Fall____Spring

Student:	Grade:
Teacher:	School:
Number of Competencies in Course:	**41**
Number of Competencies Mastered:	
Percent of Competencies Mastered:	

STANDARD 1.0: Students will demonstrate leadership, citizenship, and teamwork skills required for success in the school, community, and workplace.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
1.1	Cultivate leadership skills.		
1.2	Participate in SkillsUSA-VICA as an integral part of instruction.		
1.3	Assess situations within the school, community, and workplace and apply values to develop and select solutions.		
1.4	Demonstrate the ability to work cooperatively with others.		

STANDARD 2.0: Students will assume responsibility for the safety of themselves, their coworkers, and bystanders.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
2.1	Develop a positive attitude regarding safety practices and issues.		
2.2	Use and inspect personal protective equipment.		
2.3	Inspect, maintain, and employ safe operating procedures with tools and equipment, such as hand and power tools, ladders, scaffolding, and lifting equipment.		
2.4	Demonstrate continuous awareness of potential hazards to self and others.		
2.5	Comprehend personal responsibilities under HazCom (Hazard Communication) regulations.		
2.6	Comprehend personal responsibilities, regulations, and company policies to protect coworkers and bystanders from hazards.		
2.7	Comprehend personal responsibilities, regulations, and company policies regarding reporting of accidents and observed hazards and regarding emergency response procedures.		
2.8	Demonstrate appropriate construction-related safety procedures.		
2.9	Pass with 100 % accuracy a written examination relating to safety issues.		
2.10	Pass with 100% accuracy a performance examination relating to safety.		
2.11	Maintain a portfolio record of written safety examinations and equipment examinations for which the student has passed an operational checkout by the instructor.		

STANDARD 3.0: Students will interpret, lay out, and fabricate in conformance to construction drawings and written specifications.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
3.1	Interpret dimensions and locations of components that are explicitly dimensioned in construction drawings and written specifications.		
3.2	Interpret plan and elevation views shown in construction drawings.		
3.3	Recognize and correctly interpret lines and symbols commonly used in construction drawings.		
3.4	Make layouts of locations and elevations of structural elements with special requirements.		

STANDARD 4.0: Students will identify and select typical wood building materials and fasteners.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
4.1	Distinguish between and select various types, cuts, and grades of dimensioned lumber.		
4.2	Distinguish between and select various types, cuts, and grades of manufactured and engineered wood products.		
4.3	Distinguish between and select uses for various types and sizes of nails, bolts, and screws.		

STANDARD 5.0: Students will use appropriate hand and power tools to safely achieve industry accepted results.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
5.1	Identify hand tools, portable power tools, and stationary power tools.		
5.2	Explain the safe operation of hand tools, portable power tools, and stationary power tools.		
5.3	Demonstrate proper use of hand tools, portable power tools, and stationary power tools.		

STANDARD 6.0:Students will construct forms; install reinforcement; and place, finish, and cure concrete in accordance with construction drawings and specifications.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
6.1	Distinguish various types of concrete based on composition and intended use.		
6.2	Determine type and calculate the volume of concrete required by construction drawings and specifications.		
6.3	Defend the need for and appreciate the importance of accurate placement of reinforcing components in concrete.		
6.4	Plan and construct slab-and-beam forms for on-grade use.		
6.5	Identify, install, and secure common reinforcing materials in beam and slab foundations using accepted industry practices.		
6.6	Perform slump tests in accordance with typical industry practice.		
6.7	Demonstrate knowledge of processes typically used to place and consolidate concrete.		
6.8	Demonstrate basic concrete finishing and curing.		

STANDARD 7.0: Students will compare and contrast post-and-beam structures, platform structures, load-bearing walls, panel walls, and curtain walls.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
7.1	Distinguish between post-and-beam and platform structures whether executed in wood or steel.		
7.2	Plan the proper sequence of assembly for a multi-story post-and-beam structure.		
7.3	Plan the proper sequence of assembly for a multi-story platform structure.		
7.4	Analyze structural differences between load-bearing, panel, and curtain walls.		

STANDARD 8.0: Students will compare and contrast dimensioned lumber, engineered shapes, and trussed structures for load-bearing span applications.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
8.1	Distinguish between dimensioned lumber, engineered shapes, and fabricated trusses.		
8.2	Compare and contrast dimensioned lumber, engineered shapes, and fabricated trusses for load-bearing span applications.		

STANDARD 9.0 Students will demonstrate the importance of bridging and diagonal bracing of floor and wall structures.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
9.1	Demonstrate the necessity for bridge bracing between primary structural elements.		
9.2	Demonstrate the necessity for diagonal bracing in wall structures.		

Additional Comments _____